

EAST - [Untitled1:1]

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Drafts
BRS:
Pending
Active
L1: (3068) 104/97-98.octa. or b22d019/02 or b22d019/014
L2: (138) 1 and vas193
L3: (88) 1 and (mold or die) same (container or crucible) same pressur37
L4: (68) 3 not 2
L5: (1158) 104/133-136.octa. or 104/335-337.octa.
L6: (86) 5 and (mold or die) same (container or crucible) same pressur37
L7: (80) 6 not 4 not 2
L8: (33) 1 and (hollow\$2 near\$ (particle or sphere))
L9: (359) 1 and hollow\$2
L10: (34) 1 and (hollow\$2 near\$ (particle or sphere or particulate))
L11: (1) 10 not 8
L12: (118) 104/97.octa. and hollow\$2
L13: (95) 12 not 10
L14: (482) "104"/3.octa. and hollow\$2 and composite
L15: (357) 14 not 13 not 10 not 8
Failed
1 and (hollow\$2 near\$ (particle or sphere))
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14 not 13 not 10 not 8

US PATENT: WHAT EMP. APP. DEDUCT. 96_03_08
What patent OR

US Pat. 14 not 13 not 10 not 8

US Pat. 14 not 13 not 10 not 8

#	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Class	Inventor	S	C	P	A	U	Im
1	US 20050087320 A1	20050428	37	Fine die cast metallic parts	164/113			Kono, Kename	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
2	US 20050072549 A1	20050407	23	Methods and apparatus for heat treatment and sand removal for	164/122	164/76.1; 164/900		Crafton, Scott P. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
3	US 20050022957 A1	20050203	23	Methods and apparatus for heat treatment and sand removal for	164/5	164/132; 164/76.1		Crafton, Scott P. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
4	US 20040231822 A1	20041125	70	Method and apparatus for production of a cast component	164/122.2	164/338.1		Franier, Donald J. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
5	US 20040211538 A1	20041028	34	Infiltration of a powder metal skeleton by a similar alloy to achieve uniform	164/98			Lorenz, Adam M. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
6	US 20040208473 A1	20041021	11	Casting apparatus	164/488	164/439		Saba, Alan R. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
7	US 20040140078 A1	20040722	8	Novel casting process and articles for performing same	164/34			Liu, Jianxin et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
8	US 20040123968 A1	20040701	23	Apparatus, mold, and method for manufacturing metal-ceramic	164/98	428/209; 428/469		Osana, Hideyo et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
9	US 20040099399 A1	20040527	27	Seamless master and method of making same	164/1			Wang, San Zhuang et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
10	US 20040080685 A1	20040401	28	Centrifugal casting of titanium alloys with improved surface quality	164/114	164/529		Ray, Ranjan et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US
11	US 20040040690 A1	20040304	26	CENTRIFUGAL CASTING OF TITANIUM ALLOYS WITH IMPROVED SURFACE	164/529	164/114		Ray, Ranjan et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US